

### **ABSTRACT**

Nucleic acid molecules from nematodes encoding PAN and ZP domain containing receptor polypeptides are described. PANZP polypeptide sequences are also provided, as are vectors, host cells, and recombinant methods for production of PANZP nucleotides and  
5 polypeptides. Also described are screening methods for identifying inhibitors and/or activators, as well as methods for antibody production.

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